

ANYTHING BUT ORDINARY — CUSTOM TRANSPARENT CONDUCTIVE COATINGS

ELECTROKLEAR[™] BRAND OCF SERIES[™] TRANSPARENT CONDUCTIVE COATINGS ON FLEXIBLE SUBSTRATES



Dontech offers a range of precision roll-to-roll coatings, including transparent conductive coatings designed for EMI/RFI shielding and similar applications across various industries. These coatings are ideal for electronic displays, touchscreens, enclosures, flexible electronics, photovoltaics, and transparent heater applications. Transparent conductive oxides such as indium tin oxide (ITO) and metal and metal alloys are deposited via high vacuum magnetron sputtering onto flexible optical substrates including polyethylene terephthalate (PET), cyclo olefin polymer (COP), polycarbonate (PC), and glass via Dontech's precision roll-to-roll coating processes. ElectroKlear™ brand coatings are available on flexible films under Dontech's OCF Series™ Optical Conductive Films product family. OCF Series™ products are made in a wide range of resistivities. PET configurations are shown below:









Release Liners Not Shown

Typical OCF Series[™] product features are as follows:

- Transparent conductive coatings (single or multi-layer) on an optical quality film; high visible light transmission with low photopic reflection. Coatings can be index matched to air (n = 1.0) or bonding (n = 1.5).
- Common uses:
 - EMI/RFI shielding for electronic displays, touchscreens, enclosures
 - Transparent heaters
 - Optical static dissipation filters
 - Active touchscreen elements
 - Solar reflector/IR transmission reduction for solar loading protection
- Available in a wide variety of product size configurations including rolls, sheets, and precision cut-to-size.
- Optical pressure-sensitive adhesive can be applied to either surface. Typically, they are applied to the non-conductive surface.
- Conductive coatings can be deposited over hard coatings (e.g., antiglare or gloss hard coating) or directly on the optical substrate.
- OCF standard substrate is PET with a thickness of 0.007" (187 microns). Custom thicknesses and substrates are available, subject to minimum run volumes.
- Protective masking can be applied to front and/or rear surfaces.

www.dontech.com | 215-348-5010

QMS certified to AS9100D and ISO 9001:2015

EMI Attenuation Data

Frequency	OCF-3	OCF-10	OCF-20
100 MHz	34 dB	23 dB	15 dB
1 GHz	37 dB	28 dB	14 dB
18 GHz	35 dB	24 dB	14 dB
40 GHz	37 dB	27 dB	-

ElectroKlear[™] OCF Series[™] Product Configurations

Material	Standard Thickness	Configuration	Nominal %T	Material	Maximum Resistance, Ω/sq.	IR Blocking Performance
OCF-3	0.007″	R, S, C	65%	TCO & Metals	3	Excellent
OCF-10	0.007″	R, S, C	80%	TCO & Metals	10	Very Good
OCF-20	0.007″	R, S, C	85%	TCO & Metals	20	Average
OCF-50	0.007″	R, S, C	85%	тсо	50	Average
OCF-80	0.007″	R, S, C	80%	тсо	80	Low
OCF-250	0.007″	R, S, C	89%	тсо	250	Low

Configuration Key

OCF is Dontech's designation for vacuum deposited visually transparent conductive coatings on flexible optical film. The conductive film coatings are constructed in two formats: transparent conductive oxides (TCO), and multi-layer coatings of TCO and metallic layers. The product designations include the OCF prefix followed by the maximum sheet resistivity, measured in ohms per square. For example, OCF-50 is a TCO film with a maximum sheet resistivity of 50 ohms per square (ASTM-F-1711). Dontech's OCF Series[™], as well as custom coatings, are available on flexible or rigid substrates, as well as complete product solutions.

Configuration Key

- **R** = Rolls: Standard Widths Imperial: 36", 24", 12"; Metric: 1,000 mm, 500 mm, 250 mm. Custom widths available. Rolls are sold by the square foot or square meter.
- **S** = Sheets (24" x 24"; or 500 mm x 500 mm)
- **C** = Custom cut to size Laser or die cut

For additional information on transparent conductive films, please contact a Dontech applications engineer at 215-348-5010 or email sales@dontech.com.











Dontech, Inc. • 700 Airport Blvd. • Doylestown, PA 18902

© 04-2025 Dontech, Inc.